MBL-K-457/ 1W

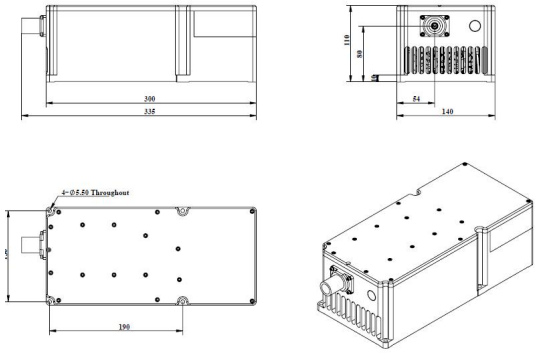
BLUE LASER AT 457nm

SPECIFICATIONS

Model	MBL-K-457
Wavelength (nm)	457±1
Operating mode	CW
Output power (W)	1
Power Stability (rms, 4 hours ± 3°C)	<5%, <3%, (<2% optional)
Transverse mode	TEM00
Spectral linewidth (nm)	<0.1
M^2	<1.2
Beam divergence, full angle (mrad)	~1.0
Beam diameter at the aperture (1/e2, mm)	<2
Warm-up time (minutes)	<10
Pointing Stability(urad) (over 2 hours after warm-up and ±3°C)	<50
Pointing Stability Over Temperature (urad/°C)	<20
Polarization ratio	>50:1(>100:1 optional), Horizontal (Vertical optional)
Beam height from base plate (mm)	80
Cooled method	Air cooled
Operating temperature (°C)	10-35
Power supply (100-240VAC)	PSU-W-LED
Modulation option	DC-1kHz, 1kHz-10kHz, 10kHz-30kHz optional; TTL and Analog optional
Expected lifetime (hours)	>10000

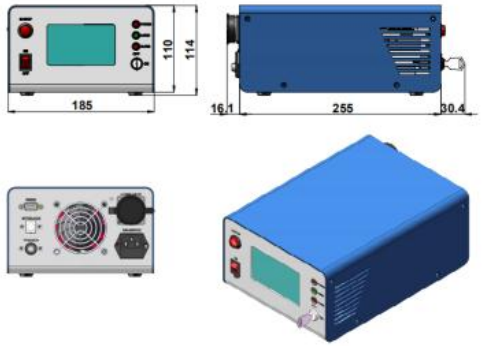
The MBL-K-457 series consists of DPSS blue lasers that emit a 457 nm fundamental-mode Gaussian beam with a maximum output power of 1 W. These lasers can serve as pump sources for titanium-sapphire lasers and are also suitable for fluorescence excitation, flow cytometry, spectral analysis, holographic imaging, and integration into various scientific optical instruments.

LASER HEAD



335 (L) ×140 (W) ×110 (H) mm³, 6.2 kg

POWER SUPPLY



301.5 (L) ×185 (W) ×114 (H) mm3, 3.0 kg

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